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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/087,746	03/05/2002	Tsukasa Ueno	8034-1002	7007
466 7590 12/27/2007 YOUNG & THOMPSON 745 SOUTH 23RD STREET 2ND FLOOR ARLINGTON, VA 22202			EXAMINER AHMED, AFFAF	
			ART UNIT 3622	PAPER NUMBER
			MAIL DATE 12/27/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/087,746	<b>Applicant(s)</b> UENO, TSUKASA	
	<b>Examiner</b> Affaf Ahmed	<b>Art Unit</b> 3622	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 12 October 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### ***Status of Claims***

1. This action is in reply to the Applicant's amendment filed on 10/12/0/2007.
2. Claims 1, 3, 5, and 8 have been amended.
3. Claim 2 has been canceled.
4. Claims 1, 3-8 are currently pending and have been examined.

### ***Response to Applicant's Amendment***

5. Applicant has amended the title of the invention. Objection is withdrawn.
6. Applicant has amended the drawings. Objection is withdrawn
7. Applicant has amended claims 1 and 5. 35 USC § 112, second rejections are withdrawn.
8. With respected to claims 1 and 8, applicant's arguments have been considered but are moot in view of the new ground (s) of rejection.

### ***Claim Rejections - 35 USC § 103***

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

10. Claims 1, 3-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Soliman et al, US Pat No: 7,031,711 B1 in view of Narayanan et al, US Pat No: 7,173,917 B1.

#### **Claims 1 and 8:**

Soliman discloses:

- *a plurality of communications networks connected to each other (see at least column 1, lines 16-18);*
- *wireless base stations that each periodically transmits a respective signal within a wireless cell, at least one of said wireless base stations being disposed in each*

*of said communications networks (see at least column 2, lines 9-15, column 16, lines 24-47 and fig 12 with associated text );*

- *a mobile terminal that transmits, when newly receiving said signal, a belonging request to a one of said wireless base stations which has transmitted said signal and connecting, when receiving permission for belonging from said one wireless base station, said mobile terminal to said one wireless base station, thus conducting communications (see at least column 4, lines 45-53, column 6, lines 66-67 and column 7 lines 1-13);*

Soliman does not disclose, but Narayanan, however, does disclose:

- *agents that each distribute a respective agent advertisement containing respective agent information onto said communications networks and track after said mobile terminal receives said agent information therefrom, the location of said mobile terminal based on movement transmitted from said mobile terminal, each of said agents being disposed in a different one of said communications networks (see at least column 6, lines 29-67); and*
- *each of said base stations storing said agent information from each of said agents disposed in a different respective ones of said communications networks said one wireless base station receiving the belonging request from said mobile terminal, and transmitting, when belonging of said mobile terminal is permitted, the respective said agent information to said mobile terminal to be stored therein, together with said permission for belonging (see at least column 9, lines 49-67).*

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate Soliman's mobile communications position detection handoff system with Narayanan's uni-cast advertisement agent of routing and detecting mobile communication technique with the motivation of reducing the need for periodic broadcasts or multicasts of agent advertisements by detecting movement of mobile user to new network.

**Claim 3:**

Soliman/ Narayanan disclose the limitations as shown above.

Soliman/Narayanan further discloses:

- *an agent advertisement filtering circuit for filtering signals on said communications networks and then extracting said agent advertisement (see Soliman in at least column 2, lines 48-53 and Narayanan in at least column 8, lines 42-54);*

- *an agent advertisement memory for storing an agent advertisement output from said agent advertisement filtering circuit (see Soliman in at least column 6, lines 16-18 and Narayanan in at least column 9, lines 49-67);*
- *a cable network interface circuit for monitoring an agent advertisement distributed on said communications networks and outputting said signals on said communications networks into said agent advertisement filtering circuit (see Soliman in at least column 3, lines 3-17 and Narayanan in at least column 9, lines 49-67);*
- *a wireless transmission/reception circuit for being an interface circuit that connects said wireless base station to said mobile terminal by wireless (see at least column 3, lines 18-23);*
- *a transmission/reception switching circuit for changing said wireless transmission/reception circuit to a transmission mode or a reception mode; an agent advertisement transmission circuit for reading, when receiving a notice from said mobile terminal saying that a belonging request has been received, said agent advertisement from said agent advertisement memory, and then transmitting said notice to said mobile terminal via said wireless transmission/reception circuit and via said transmission/reception switching circuit; and a terminal belonging management circuit for notifying, when detecting receiving a belonging request from said mobile terminal, said agent advertisement transmission circuit of the reception (see Soliman at least column 3, lines 24-39 and Narayanan in column 10, lines 19-26).*

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate Soliman's mobile communications position detection handoff system with Narayanan's uni-cast advertisement agent of routing and detecting mobile communication technique with the motivation of reducing the need for periodic broadcasts or multicasts of agent advertisements by detecting movement of mobile user to new network.

**Claim 4:**

Soliman/ Narayanan disclose the limitations as shown above.

Soliman further discloses:

- *agent information contains at least an IP address of said agent (see at least column 6, lines 40-51).*

**Claim 5:**

Soliman/ Narayanan disclose the limitations as shown above.

Soliman further discloses:

- *a memory for storing said agent information set via said communications networks using a SNMP (see at least column 6, lines 16-18). Further more, above limitation of using SNMP is inherently and an essentially a request-reply protocol running over UDP, though TCP operation is possible.*
- *a cable network interface circuit for outputting said agent information received, to said memory (see at least column 6, lines 16-18);*
- *a wireless transmission/reception circuit being an interface circuit that connects said wireless base station to said mobile terminal by wireless (see at least column 3, lines 18-23);*
- *a transmission/reception switching circuit for switching said wireless transmission/reception circuit to a transmission mode or a reception mode; a transmission circuit for reading, when receiving a notice from a mobile terminal saying that a belonging request has been received, said agent advertisement from said memory, transmitting said notice to said mobile terminal via said wireless transmission/reception circuit and via said transmission/reception-switching circuit; a terminal belonging management circuit for notifying, when detecting receiving a belonging request from said mobile terminal, said transmission circuit of the reception (see at least column 3, lines 24-39 and column 4, lines 4-15).*

**Claim 6:**

Soliman/ Narayanan disclose the limitations as shown above.

Soliman further discloses:

- *a wireless transmission/reception circuit being an interface circuit that connects said mobile terminal to said wireless base stations by wireless (see at least column 3, lines 18-23);*
- *a transmission/reception switching circuit being a circuit that switches said wireless transmission/reception circuit to a wireless transmission mode or a wireless reception mode; a belonging processing circuit for transmitting, when receiving a notice saying that signals periodically transmitted from a wireless base station have been detected, a belonging request to said wireless base station via said wireless transmission/reception circuit and via said transmission/reception switching circuit; a base station decision circuit being a circuit that detects signals periodically transmitted from a wireless base station belonging to a self station, said base station detection circuit judging, when said signals are not detected, that said self station has moved outside the radio cell of said wireless base station and notifying, when signals periodically transmitted from other wireless base station are detected, said belonging processing circuit of the detection (see at least column 3, lines 24-39).*

**Claim 7:**

Soliman/ Narayanan disclose the limitations as shown above.

Soliman further discloses:

- *an agent connection processing circuit for transmitting, when receiving a notice saying that reception of said agent information has been detected, a movement notice for said agent to a wireless base station via said wireless transmission/reception circuit and via said transmission/reception switching circuit; an agent advertisement reception circuit being a circuit that detects reception of said agent information, said agent advertisement reception circuit notifying, when detecting reception of said agent information, said agent*

*connection processing circuit of the detection, and outputting a request for changing the network setting of a terminal connected to said mobile terminal based on said agent information, to a network setting changing circuit of said terminal (see at least column 6, lines 66-67 and column 7, lines 1-12).*

### **Conclusion**

11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).


12. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS from the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX Months from the mailing date of this final.

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Affaf Ahmed whose telephone number is 571-270-1835. The examiner can normally be reached on Monday - Friday, 8:30 am-6:00 pm est, alt Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eric Stamber can be reached at 571-272-6724. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AA

  
**RETTA YEHDEGA**  
**PRIMARY EXAMINER**